

PR - JP19960238359 19960820  
OPD - 1996-08-20  
TI - DISTANCE-MEASURING SENSOR, DISTANCE-MEASURING UNIT,  
PAPER-SHEETS CONVEYANCE DEVICE, AUTOMATIC  
INSPECTION DEVICE AND PRINTING APPARATUS  
IN - KITAGAWA YUKINORI; TAKEMURA KENJI  
PA - OMRON TATEISI ELECTRONICS CO  
IC - G01C3/06 ; G01B11/00 ; G01S7/48 ; G01S17/08

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CI - Optical range sensor for paper conveyor, printer, automatic tester -  
has position sensor provided in light receiver, which has shading  
areas on its light receiving surface with optical spot moving  
corresponding to object distance

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PN - JP10062161 A 19980306 DW199820 G01C3/06 015pp

PA - (OMRO ) OMRON KK

IC - G01B11/00 ; G01C3/06 ; G01S7/48 ; G01S17/08

AB - J10062161 The sensor (12) includes a light transmitter (14) from  
which the light beam is illuminated on a measurement object (24).  
The light beam reflected from the object, is received by a light  
receiver (15). The light receiver comprises a position sensor (18)  
which generates an electrical signal corresponding to the reflected  
light.  
- A pair of shading area (20,20b) is formed at both the end surfaces  
of position sensor. Based on the distance variation of the object,  
the optical spot is moved between the shading areas with respect to  
the optical centre surface. Based on the optical spot movement, the  
object distance (L) is calculated.  
- ADVANTAGE - Improves object distance measurement precision.  
- (Dwg.2/30)

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AN - 1998-220603 [20]

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PD - 1998-03-06

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